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File: DWPI

Jul 17, 1986

DERWENT-ACC-NO: 1986-228507

DERWENT-WEEK: 198635

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TITLE: CVD of tungsten carbide - using tungsten hexa:fluoride hydrogen and propene as reactive gases

PATENT-ASSIGNEE: OYO KAGAKU KENKYUSHO KK (OYOKN), TOHO KINZOKU KK (TOXH)

PRIORITY-DATA: 1984JP-0280063 (December 28, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP <u>61157681</u> A	July 17, 1986		004	
JP 87054869 B	November 17, 1987		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 61157681A	December 28, 1984	1984JP-0280063	

INT-CL (IPC): C23C 16/32

ABSTRACTED-PUB-NO: JP 61157681A

BASIC-ABSTRACT:

Reaction gases of WF₆, H₂ and C₃H₆ are supplied with inert gas as carrier into a reaction chamber to mfr. a W₂C coating on the substrate. Pref. WF₆ is mixed with H₂ in the mol. ratio of WF₆:H₂=1:3-1:15, and C₃H₆ is added to the gas mixt. at the mol. ratio of 0.01-0.3. Reaction is performed at a substrate temp. of 350-600 deg. C.

USE/ADVANTAGE - Fine and smooth W₂C coating is obt. by CVD without using C₆H₆.% In an example, graphite plate (IG-11) was subjected to CVD under conditions of 400 deg. C, gas flow rate of 40 (cm³/min) for WF₆, 320 for H₂, 40 for Ar and 10 for G₃H₆. Deposition rate was 1.4 (microns/mm), Cross section hardness H_k of 2300 was obt. on the structure comprised by monophase of cylindrical W₂C.

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EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 0/3

DERWENT-CLASS: M13

CPI-CODES: M13-E02; M13-E06;